

CLAIMS

1. A pyrotechnic gas-generating composition comprising an oxidizing charge constituted by basic copper nitrate (BCN), a reducing charge
5 constituted by guanidine nitrate (GN) and a binder, the composition being characterized in that it also comprises:
 - an additional reducing charge selected from the group formed by hexogene (RDX), octogene (HMX), penthrite (PETN), triaminoguanidine nitrate (TAGN), nitroguanidine, 3-nitro-1,2,4-triazol-5-one (ONTA) and
10 mono- and bi-tetrazoles; and/or, advantageously and
 - an additional oxidizing charge which forms a solid solution obtained by substitution with guanidine nitrate (GN); andin that the binder, which is hydrosoluble, is based on a mixture of at least one carboxymethylcellulose with a high molecular mass
15 and at least one carboxymethylcellulose with a low molecular mass, in a mass ratio in the range 95/5 to 60/40.
2. The composition according to claim 1, characterized in that the basic copper nitrate (BCN) is present in a mass fraction in the range 50% to
20 60% of the total composition mass.
3. The composition according to claim 1 or claim 2, characterized in that the guanidine nitrate (GN) is present in a mass fraction in the range 20%
25 to 40% of the total composition mass.
4. The composition according to any one of claims 1 to 3, characterized in that the additional reducing charge is hexogene (RDX) or octogene (HMX).
5. The composition according to any one of claims 1 to 4, characterized in
30 that additional reducing charge is present in a mass fraction of less than 15% with respect to the total composition mass.
6. The composition according to any one of claims 1 to 5, characterized in that the additional oxidizing charge which is present is selected from the

group formed by ammonium perchlorate, potassium perchlorate, ammonium nitrate, sodium nitrate and potassium nitrate.

5 7. The composition according to any one of claims 1 to 6, characterized in that the additional oxidizing charge which is present is selected from the group formed by ammonium perchlorate and potassium perchlorate; and in that said additional oxidizing charge advantageously consists of ammonium perchlorate.

10 8. The composition according to any one of claims 1 to 7, characterized in that the additional oxidizing charge is present in a mass fraction of less than 15% of the total composition mass.

15 9. The composition according to any one of claims 1 to 8, characterized in that the binder is present in a mass fraction in the range 2% to 15% of the total composition mass.

20 10. Pyrotechnic compounds able to be obtained from a composition according to any one of claims 1 to 9.

11. The pyrotechnic compounds according to claim 10, manufactured and formed by a pelletization or disk compression process.

25 12. The pyrotechnic compounds according to claim 10, manufactured and formed by an extrusion process.

13. The pyrotechnic compounds according to claim 10 or 12, of the monolithic, mono- or multi-perforated type.